

1638
#13
BP
12-27-01
OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/529,239A

DATE: 08/29/2001

TIME: 15:24:14

Input Set : A:\09529239SubSeqList.txt

Output Set: N:\CRF3\08292001\I529239A.raw

ENTERED

RECEIVED
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TECH CENTER 1600/2900

1 <110> APPLICANT: Doutriaux, Marie-Pascale
2 Betzner, Andreas
3 Freyssinet, Georges
4 Perez, Pascal
6 <120> TITLE OF INVENTION: METHOD FOR OBTAINING PLANT VARIETIES
9 <130> FILE REFERENCE: A33153-PCT-USA 072667.0128
11 <140> CURRENT APPLICATION NUMBER: US 09/529,239A
12 <141> CURRENT FILING DATE: 2000-10-27
14 <150> PRIOR APPLICATION NUMBER: PCT/EP98/06977
15 <151> PRIOR FILING DATE: 1998-10-09
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22 <213> ORGANISM: Artificial sequence
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25 <221> NAME/KEY: modified_base
26 <222> LOCATION: 11
27 <223> OTHER INFORMATION: I
29 <220> FEATURE:
30 <221> NAME/KEY: modified_base
31 <222> LOCATION: 14
32 <223> OTHER INFORMATION: I
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35 <221> NAME/KEY: modified_base
36 <222> LOCATION: 17
37 <223> OTHER INFORMATION: I
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Degenerate oligonucleotides UPMU used to isolate AtMSH3 and AtMSH6.
42 <300> PUBLICATION INFORMATION:
43 <301> AUTHORS: Reenan and Kolodner
44 <302> TITLE: Genetics
45 <303> JOURNAL: 132
46 <306> PAGES: 963-973
47 <307> DATE: 1992
49 <400> SEQUENCE: 1
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55 <211> LENGTH: 23
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57 <213> ORGANISM: Artificial sequence
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60 <221> NAME/KEY: modified_base
61 <222> LOCATION: 15
62 <223> OTHER INFORMATION: I
64 <220> FEATURE:
65 <221> NAME/KEY: modified_base

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66 <222> LOCATION: 18

67 <223> OTHER INFORMATION: (I)

69 <220> FEATURE:

70 <223> OTHER INFORMATION: Degenerate oligonucleotides DOMU used to isolate AtMSH3 and ✓

AtMSH6.

72 <300> PUBLICATION INFORMATION:

73 <301> AUTHORS: Reenan and Kolodner

74 <302> TITLE: Genetics

75 <303> JOURNAL: 132

76 <306> PAGES: 963-973

77 <307> DATE: 1992

79 <400> SEQUENCE: 2 ✓

W--> 81 ctggatccrt artgngtnrc raa 23

84 <210> SEQ ID NO: 3

85 <211> LENGTH: 24

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87 <213> ORGANISM: Artificial sequence

89 <220> FEATURE:

90 <223> OTHER INFORMATION: MSH3 specific primer 636 for PCR using cDNA of Arabidopsis ✓

thaliana

91 ecotype Columbia

93 <400> SEQUENCE: 3

95 tgctagtgcc tcttgcaagc tcat 24

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99 <211> LENGTH: 27

100 <212> TYPE: DNA

101 <213> ORGANISM: Artificial sequence

103 <220> FEATURE:

104 <223> OTHER INFORMATION: Primer AP1 for PCR using cDNA of Arabidopsis thaliana ✓

ecotype Columbia

105 containing adapter sequences ligated to both its ends

107 <400> SEQUENCE: 4

109 ccatacctaata acgactcact atagggc 27

112 <210> SEQ ID NO: 5

113 <211> LENGTH: 23

114 <212> TYPE: DNA

115 <213> ORGANISM: Artificial sequence

117 <220> FEATURE:

118 <223> OTHER INFORMATION: Primer AP2 for PCR using cDNA of Arabidopsis thaliana ✓

ecotype Columbia

119 containing adapter sequences ligated to both its ends

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123 actcactata gggctcgagc ggc 23

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127 <211> LENGTH: 30

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129 <213> ORGANISM: Artificial sequence

131 <220> FEATURE:

132 <223> OTHER INFORMATION: MSH3 specific primer S525 for PCR using cDNA of Arabidopsis ✓

thaliana

133 ecotype Columbia

135 <400> SEQUENCE: 6

137 aggttctgat tatgtgtgac gctttactta 30

140 <210> SEQ ID NO: 7

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thaliana
147     ecotype Columbia
149 <400> SEQUENCE: 7
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159 <220> FEATURE:
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thaliana
161     ecotype Columbia
163 <400> SEQUENCE: 8
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175     ecotype Columbia
177 <400> SEQUENCE: 9
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184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: MSH3 specific primer 1S5 for PCR using cDNA of Arabidopsis ✓
thaliana
189     ecotype Columbia
191 <400> SEQUENCE: 10
193 atcccgggat gggcaagcaa aagcagcaga cga      33
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197 <211> LENGTH: 27
198 <212> TYPE: DNA
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202 <223> OTHER INFORMATION: MSH3 specific primer S53 for PCR using cDNA of Arabidopsis ✓
thaliana
203     ecotype Columbia
205 <400> SEQUENCE: 11
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211 <211> LENGTH: 1250
212 <212> TYPE: DNA
213 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

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214 <223> OTHER INFORMATION: Clone 52

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216 <400> SEQUENCE: 12

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220 gccactgtat ccttctctcc ttccaagcgt aagcttctct ccgaccacct cgccgcgcgc      180
221 tcacccaaaa agcctaaact ttctcttcac actcaaaacc cagtaccgga tcccaattta      240
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224 ccagatgtgg ttttgatggg ggaagtggg tacaggtaca gattcttcgg agaagacgcg      420
225 gagatcgacg cagcgtgtgt gggatattac gctcatatgg atcacaattt catgacggcg      480
226 agtgtgccaa catttcgatt gaatttccat gtgagaagac tggatgaatgc aggatacaag      540
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228 ggcctttttt tccggggact gtcggcggtg tataccaaag ccacgcttga agcggctgag      660
229 gatataagtg gtggttggtg tggatgaaga ggttttggtt cacagagtaa tttcttggtt      720
230 tgtgttggtg atgagagagt taagtcggag acattaggct gtggtattga aatgagtttt      780
231 gatgttagag tcggtgttgt tggcggtgaa atttcgacag gtgaagtgtt ttatgaagag      840
232 ttcaatgata atttcatgag aagtggatta gaggtgtgta ttttgagctt gtcaccagct      900
233 gagctgttgc ttggccagcc tctttcacia caaactgaga agtttttggg ggcacatgct      960
234 ggacctacct caaacgttcg agtggaaact gcctcactgg attgtttcag caatggtaat      1020
235 gcagtagatg aggttatattc attatgtgaa aaaatcagcg caggtaactt agaagatgat      1080
236 aaagaaatga agctggaggc tgctgaaaaa ggaatgtctt gcttgacagt tcatacaatt      1140
237 atgaacatgc cacatctgac tgttcaagcc ctgcgcctaa cgttttgcca totcaaacag      1200
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243 <212> TYPE: DNA

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246 <220> FEATURE:

247 <223> OTHER INFORMATION: MSH3 specific primer 2S5 for PCR using cDNA of Arabidopsis thaliana

248 ecotype Columbia ✓

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258 <213> ORGANISM: Artificial sequence

260 <220> FEATURE:

261 <223> OTHER INFORMATION: MSH3 specific primer S52 for PCR using cDNA of Arabidopsis thaliana

262 ecotype Columbia ✓

264 <400> SEQUENCE: 14

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271 <212> TYPE: DNA

272 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

273 <223> OTHER INFORMATION: Clone 13

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279 tctctcagcc aatactctgc aacagttgga gggtgtgaaa aataattcag atggatcgga      180

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282 tgtttctgag atttctgctt gcatgggacg tcatagttct tcccagctca gcagtgagtt 360
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286 gcaaatccag cggttggca taaagcaaga ctctgaaatg aggagtatgc aatctgcaac 600
287 tgtgcgatct actcttttga gaaaattgat ttctgttatt tcatcccctg ttgtggttga 660
288 caatgccgga aaactttctc ctgcctataa taaggaaagc gctgttcgag gtgacttgct 720
289 cgacatacta atcaattcca gogaccaatt tctgagctt gctgaagctc gccaaagcgt 780
290 tttagtcata agggaaaagc tggattcctc gatagcttca tttcgcaaga agctcgctat 840
291 tcgaaatttg gaattttctc aagtgtcggg gatcacacat ttgatagagc tgcccgttga 900
292 ttccaaggct cctatgaatt gggtgaaagt aaatagcacc aagaagacta ttcgatatca 960
293 tccccagaaa atagtagctg gcttggatga gctagctcta gcaactgaac atcttgccat 1020
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295 taaggctgcc gttcaagctc ttgctgcact ggactgtttg cactcccttt caactctatc 1140
296 tagaaacaag aactatgtcc gtcccgagtt tgtggatgac tgtgaaccag ttgagataaa 1200
297 catacagtct ggtcgtcacc ctgtactgga gactatatta caagataact tcgtcccaa 1260
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299 aggaaagagc tgcataatcc gtcaagttgc ttttaatttc ataattgctc aggttggttc 1380
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302 acacataatc agaacctgtt ctctcgttcc gcttgttata ttagatgagc ttggaagagg 1560
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307 gagctttggt ttttaagggtg ctgagcttgc ccagatacct ccatcatgta tacgtcgagc 1860
308 catttcaatg gctgcaaaat tggagctga ggtacgtgca agagagagaa atacacgcat 1920
309 gggagaacca gaaggacatg aagaaccgag aggcgcagaa gaatctattt cggctctagg 1980
310 tgacttgttt gcagacctga aatttgctct ctctgaagag gacccttgga aagcattcga 2040
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312 ttgaccggg 2110

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322 ecotype Columbia ✓

324 <400> SEQUENCE: 16

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331 <212> TYPE: DNA

332 <213> ORGANISM: Artificial sequence

334 <220> FEATURE:

335 <223> OTHER INFORMATION: MSH3 specific primer S525 for PCR using cDNA of Arabidopsis
thaliana

336 ecotype Columbia ✓

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/529,239A

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Input Set : A:\09529239SubSeqList.txt

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L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2